

Weekly Report 2013/11/24

Summary

There is a meeting held in this week on coast guard data analytics business, for two days. After that, actually meanwhile, we have to meet a deadline for the VASA project. So this week is more about VASA project, and a little further learning of Django web framework.

The VASA Project

A new food contamination scenario is proposed, and we have to implement it by this weekend. The scenario describes a food poison incident: food gets contaminated in the farm, then it gets distributed to stores and people around the stores get sick. The analysis loop goes reversely: with the information of patients reporting stores where they eat, analysts can trace back to where the food get contaminated and the impacted area of this incident.

What I did in this scenario implementation was to read and parse the data, and a user interaction used to choose to show either stores or people impacted by the incident.

The Data Cleaning Project

I've been learning Django web framework for dynamic model construction in this week. To implement schema mapping, dynamic modeling is necessary. But few online materials can be found. I'm still trying on it.

To make more progress, I decide to implement basic web-based user interfaces, and the server-end web framework at the same time.

To summarize the overall work, this project aims at integrating dataset from different sources (currently on multiple data files), making visual verification after every data-cleaning/ schema-mapping step. So the key feature would be **visualization-aided data cleaning and schema mapping**.

The Data Visualization Course Discussion

I had a discussion with Ma Yuxin about course project of data visualization. To encourage more creative ideas from students, we decide to have those students pick their own topic, collect their own data, and do their own analysis.

Next Week Plan

1. I seldom read any papers these days. That's not a good sign. So next week, I'd like to read a few papers on the topic of data cleaning or simulation.
2. Next week I will concentrate more on my own research project.